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## JACKET

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|----------------------|------------------------|--------------------|----------------|
| a. Serial No.        | f. Foreign Priority    | k. Print Claim(s)  | p. PTO-1449    |
| b. Applicant(s)      | g. Disclaimer          | l. Print Fig.      | q. PTOL-85b    |
| c. Continuing Data   | h. Microfiche Appendix | m. Searched Column | r. Abstract    |
| d. PCT               | i. Title               | n. PTO-270/328     | s. Sheets/Figs |
| e. Domestic Priority | j. Claims Allowed      | o. PTO-892         | t. Other       |

## SPECIFICATION

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h. Sequence Listing  
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## RESPONSE

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INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)	Attorney Docket No.	U.S. Serial No.
	Applicant(s)	08/971,254
	Paul J. Berlowitz, et al	
	Date Mailed	Group Art Unit
November 17, 1997	1721	DEC 08 1999

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AA	4 8 3 2 8 1 9	5/23/89	Hamner	208	27	
AB	5 3 2 4 3 3 5	6/28/94	Benham	44	452	
AC	2 5 6 2 9 8 0	8/7/51	Atwell	260	450	
AD	2 2 4 3 7 6 0	5/27/41	Martir	44	9	
AE	4 9 1 9 7 8 6	4/24/90	Hamner	208	27	
AF	4 9 2 3 8 4 1	5/8/90	Hamner	502	230	
AG	4 8 7 5 9 9 2	10/24/89	Hamner	208	89	
AH	4 2 1 2 7 7 1	7/15/80	Hamner	252	455 Z	
AI	4 0 7 3 7 1 8	2/14/76	Hamner	208	80	
AJ	4 0 5 1 0 2 1	9/27/77	Hamner	208	216	
AK	4 0 1 4 8 2 1	3/29/77	Hamner	252	470	
AL	3 8 8 7 4 5 5	8/3/75	Hamner	208	112	
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			08/971,254	
	Applicant(s) Paul J. Berlowitz, et al			
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AC	5 1 5 8 6 7 1	10/27/92	Cody et al	208	264	
AD	4 9 5 9 3 3 7	9/25/90	Cody et al	502	230	
AE	4 9 3 7 3 9 9	6/26/90	Wachler et al	585	749	
AF	4 9 2 9 7 9 5	5/29/90	Cody et al	585	739	
AG	4 7 5 5 2 8 0	7/5/88	Hudson et al	208	89	
AH	4 6 1 8 4 1 2	10/21/86	Hudson et al	208	59	
AI	5 1 8 7 1 3 8	2/16/93	Davis	502	255	
AJ	5 2 9 2 9 8 9	3/8/94	Davis	585	751	
AK	5 3 7 8 3 4 8	1/3/95	Davis et al	208	27	
AL	5 6 8 9 0 3 1	11/18/97	Berlowitz et al	585	734	10/17/95
AM	4 6 4 5 5 8 5	2/24/87	White	208	58	
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AQ 0 1 5 3 7 8 2	04.09.85	European (Shen)	B01J	37.26	
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		November 17, 1997		1721		Paul J. Berlowitz, et al DEC 0 5 1999								
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AB	2	9	1	4	4	6	4	11/24/59	Burton et al	208	138			
AC	2	7	5	6	1	8	3	7/24/56	Knox Jr	196	35			
AD	2	7	7	9	7	1	3	1/29/57	Cole et al	196	35			
AE	2	6	6	8	7	9	0	2/9/54	Good et al	196	50			
AF	2	8	1	7	6	9	3	12/24/57	Koome et al	260	683.5			
AG	2	8	3	8	4	4	4	6/10/58	Teter et al	196	50			
AH	3	0	7	8	3	2	3	2/19/63	Kline et al	260	683.65			
AI	3	1	2	3	5	7	3	3/3/64	Carr	252	442			
AJ	3	1	2	5	5	1	1	3/17/64	Tupman et al	208	264			
AK	3	2	0	6	5	2	5	9/14/65	Michaels et al	260	683.66			
AL	3	2	6	8	4	3	9	8/23/66	Tupman et al	208	112			
AM	3	1	2	1	6	9	6	2/18/64	Hoekstra	252	441			
AN	3	0	5	2	6	2	2	9/4/62	Johnson et al	208	27			
<b>FOREIGN PATENT DOCUMENTS</b>														
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AO	5	3	9	6	9	8		16 04 57	Canada					
AP	7	0	0	2	3	7		72 12 64	Canada (Miller)					
AQ	8	2	3	0		0		04 11 59	United Kingdom (UOP)	C07C				
AR	8	4	8	1	9	8		14 09 50	United Kingdom (UOP)	C07C				
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	Applicant(s) Paul J. Berlowitz, et al			
	Date Mailed November 17, 1997		Group Art Unit C-0-C-1929 1721	

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AB	2 9 9 3 9 3 8	7/25/61	Bloch et al	260	666	
AC	2 6 6 8 8 6 6	2/9/54	Good et al	260	683.5	
AD	3 3 0 8 0 5 2	3/7/67	Ireland et al	208	27	
AE	4 8 5 5 5 3 0	8/8/89	LaPierre et al	585	739	
AF	4 9 1 9 7 8 8	4/24/90	Chen et al	208	59	
AG	4 9 6 2 2 6 9	10/9/90	LaPierre et al	585	739	
AH	4 9 8 2 0 3 1	1/1/91	Chen	208	324	
AI	4 9 9 0 7 1 3	2/5/91	Le et al	585	332	
AJ	5 0 3 7 5 2 8	8/6/91	Garwood et al	208	27	
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	AB	5	3	0	6	8	6	0	4/26/94	Brigard et al	585	737	5/21/92											
	AC	5	3	7	8	3	5	1	1/3/95	Guchard et al	208	143												
	AD	4	8	5	5	5	3	0	8/8/89	LaPierre et al	585	739												
	AE	3	7	0	9	8	1	7	6/9/73	Suggitt et al <sup>(1)</sup>	208	112												
	AF	3	3	4	0	1	8	0	9/5/67	Beuther et al	208	108												
	AG	3	3	3	8	8	4	3	8/29/67	Goble et al	252	442												
	AH	4	6	2	7	9	0	8	12/9/86	Miller	208	58												
	AI	3	8	3	0	7	2	3	8/20/74	Ladeur et al	208	108												
	AJ	3	8	3	0	7	2	8	8/20/74	Mounce	208	59												
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	AK	1	3	4	2	5	0	0	03.01.74	United Kingdom (Shell)	B01J	11/46												
	AL	1	4	4	0	2	3	0	23.06.76	United Kingdom (Shell)	C10G	34/00												
	AM	1	4	9	3	9	2	8	30.11.77	United Kingdom (Shell)	C10G	23/16												
	AN	4	9	0	3	5	3	23		Japan (Nippon Gosei)														
	AO	2	1	3	7	4	9	0	14.04.72	France (Suggitt)			X <sup>(1)</sup>											
	AP	97		2	1	7	8	7	19.06.97	WO														
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										Paul J. Berkowitz et al.				
Date Mailed										Group Art Unit				
November 17, 1997										1701 EEO 1017				
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Examine Initial		Document Number						Date	Name	Class	Sub- Class	Filing Date		
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	AB	3	8	4	3	7	4	6	10/22/74	Kravitz et al	260	683.68		
	AC	3	6	2	0	9	6	0	11/16/71	Kozlowski et al	208	60		
	AD	3	6	1	9	4	0	8	11/9/71	Larson	208	80		
	AE	3	8	7	0	6	2	2	3/11/75	Ashton et al	208	93		
	AF	4	4	7	2	5	2	9	9/18/84	Johnson et al	502	228		
	AG	4	5	7	9	9	8	6	4/1/86	Sie	585	324		
	AH	4	6	8	4	7	5	6	8/4/87	Derr Jr. et al	585	330		
	AI	4	0	3	2	4	7	4	6/28/77	Goudriaan et al	252	441		
	AJ	4	6	0	8	1	5	1	8/26/86	Miller	208	33		
	AK	3	8	6	4	4	2	5	2/4/75	Gardner	260	683.68		
	AL	3	7	9	4	5	8	0	2/26/74	Ladeur	208	110		
	AM	4	4	5	1	5	7	2	5/29/84	Cody	502	62		
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	AO	0	5	3	2	1	1	8	17 03 93	European			X	
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(1) English language equivalent is U. S. Patent 5,306,860 (Bigeard) enclosed.

(2) English language equivalent is U. S. Patent 5,345,019 (Bigeard) enclosed.

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	08/971,254	
	Applicant(s): Paul J. Berlowitz, et al.	
	Date Mailed November 17, 1997	Group Art Unit 1721

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AA	4 1 8 6 0 7 8	1/29/80	Itoh et al	208	27	
AB	4 4 4 4 8 9 5	4/24/84	Fung et al	502	37	
AC	4 4 2 7 5 3 4	1/24/84	Brunn et al	208	89	
AD	3 8 6 1 0 0 5	1/21/75	Stenmetz et al	208	111	
AE	3 8 1 4 6 8 2	6/4/74	Christman et al	208	216	
AF	3 7 1 1 3 9 9	1/16/73	Estes et al	208	112	
AG	4 4 2 8 8 1 9	1/31/84	Shu et al	208	46	
AH	3 7 1 7 5 8 6	2/20/73	Suggitt et al	252	439	
AI	3 9 1 5 8 4 3	10/28/75	Franck et al	208	112	
AJ	3 6 9 2 6 9 5	9/19/72	Suggitt et al	252	439	
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AP	3 0 3 0 9 9 8	01 04 82	DE			X	
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	AC 3 9 7 7 9 6 1	8/31/76	Hamner	208	59	
	AD 3 9 7 7 9 6 2	8/31/76	Arey Jr. et al	208	59	
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	AF 3 5 9 4 3 0 7	7/20/71	Kirk Jr.	208	57	
	AG 4 5 9 4 1 7 2	6/10/86	Sie	252	55	
	AH 4 1 6 2 9 6 2	7/31/79	Stangeland	208	58	
	AI 3 8 4 0 5 0 8	10/8/74	Ballard et al	260	88.2 R	
	AJ 3 8 4 0 6 1 4	10/8/74	Kravitz et al	260	683.68	
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AD	3 6 3 0 8 8 5	12/28/71	Egan	208	59	
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AF	3 7 2 5 3 0 2	4/3/73	Shmely	252	431 R	
AG	3 7 7 0 6 1 8	11/8/73	Adams	208	216	
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AJ	4 3 9 0 4 1 4	6/28/83	Cody	208	111	

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Examiner

Date Disclosed

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AC	3 8 4 3 5 0 9	10/22/74	Suto et al	208	111	
AD	3 3 9 5 9 8 1	8/6/68	Kiecho			
AE	4 0 8 7 3 4 9	5/2/78	Baird Jr.			
AF	5 5 4 3 4 3 7	8/6/96	Benham et al	518	700	6/6/95
AG	5 5 0 6 2 7 2	4/9/96	Benham et al	518	700	6/6/95
AH	5 5 0 4 1 1 8	4/2/96	Benham et al	518	719	3/14/94
AI	5 5 0 0 4 4 9	3/19/96	Benham et al	518	700	6/6/95
AJ	5 3 0 8 3 6 5	5/3/94	Kesling	44	447	
AK	3 2 6 8 4 3 6	8/23/66	Arey Jr. et al	208	59	

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Document Number	Publication Date	Country	Class	Sub-Class	Translation Yes No
AL 0 5 8 7 2 4 6	16/03/94	EP (Shell)			
AM 97 / 0 3 7 5 0		WO (ER&E)			
AN 95 / 0 2 6 9 5	1/26/95	WO (Novo Nordisk)			
AO 7 3 2 9 6 4	11/03/32	France (Deutsche HWI)			X

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AP	Lacy, "The U.S. Army Scuffing Load Wear Test", 1 * 94
AQ	Ryland et al, "Cracking Catalyst", Catalysis Vol. VII, P. Emmett, ed., Reinhold Publ. NY (1960), pp. 5-9
AR	Stourmas, "Eff. of Fatty Acids...", JAOC S 72 (4) (1995).

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Date Considered

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										Applicant(s) Paul J. Berowitz, et al			
<b>U. S. PATENT DOCUMENTS</b>													
Examiner Initial	Document Number							Date	Name	Class	Sub-Class	Filing Date	
	AA	4	1	2	5	5	6	6	11/14/78	Dinh	260	676	
	AB	5	0	5	9	2	9	9	10/22/91	Cody	585	737	
	AC	4	8	0	4	8	0	2	2/14/89	Evans	587	734	
	AD	4	9	9	2	1	5	9	2/12/91	Cody	585	734	
	AE	5	0	5	9	7	4	1	10/22/91	Foley	585	734	
	AF	4	5	6	8	6	6	3	2/4/86	Mauldin	502	325	
	AG	4	9	9	2	4	0	6	2/12/91	Mauldin	502	325	
	AH	3	8	4	3	5	0	9	10/22/74	Suto	208	111	
	AI	4	0	4	1	0	9	5	8/9/77	Kuo	260	676	
	AJ	4	9	6	0	5	0	4	10/2/90	Pellet	208	411	2/22/88
	AK	5	3	8	5	5	8	8	1/31/95	Brennan	44	331	10/21/93
<b>FOREIGN PATENT DOCUMENTS</b>													
	Document Number							Publication Date	Country	Class	Sub-Class	Translation Yes No	
	AL	8	5	9	6	8	6	30.08.39	France (Synthetic Oils)			X	
	AM	7	3	1	0	0	9	94.05.19	Japan (Nippon Petrochemicals)	B08B	1/00	(1)	
	AN	6	2	0	0	2	6	91.07.29	Japan (Idemitsu Kosan)	C10G	45/50	(2)	
	AO	92		0	1	7	6	96.02.92	WO (Miller)	C10G	73/38		

(1) English language abstract

(2) English language abstract

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										Applicant(s) Paul J. Berlowitz, et al.														
										Date Mailed November 17, 1997					Group Art. Unit 1721									
<b>U. S. PATENT DOCUMENTS</b>																								
Examine Initial		Document Number							Date	Name	Class	Sub- Class	Filing Date											
	AA	4	0	5	9	6	4	8	11/22/77	Derr et al	260	676 R	7/9/76											
	AB	5	0	5	9	7	4	1	10/22/81	Foley	585	734	1/29/91											
	AC	5	5	4	5	6	7	4	8/13/96	Behrmann et al	518	715	1/24/95											
	AD	5	3	4	8	9	8	2	9/20/94	Herbolzheimer et al	518	700	5/20/93											
	AE	4	3	7	8	9	7	3	4/5/83	Sweeney	44	56	1/7/82											
	AF	4	5	3	9	0	1	4	9/3/85	Sweeney	44	56	9/2/80											
	AG	5	5	3	8	5	2	2	7/23/96	Ahmed	44	412	6/27/94											
	AH	4	5	1	8	3	9	5	5/21/85	Patronella	44	53	9/21/82											
	AI	4	5	2	7	9	9	5	7/9/85	Ilow et al	44	56	5/14/84											
	AJ	3	6	6	8	1	1	2	6/6/72	Parker														
	AK	3	6	6	8	1	1	3	6/6/72	Burbridge														
	AL	5	5	2	2	9	8	3	6/4/96	Cash et al	208	59	2/6/92											
	AM	4	5	9	9	1	6	2	7/8/86	Yen	208	59	12/21/84											
	AN	5	1	8	3	5	5	6	2/2/93	Reilly et al	208	57	3/13/91											
	AO	3	1	4	7	2	1	0	9/1/64	Hass et al	208	210	3/19/62											
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		Document Number							Publica- tion Date	Country	Class	Sub- Class	Translation Yes No											
	AP	1	3	0	6	6	4	6	11-02-73	Great Britain (Radulescu)	C10G	2116												
	AO	0	5	6	6	3	48	A2	10-10-93	European (ER&E)	B01J	2902												
	AR	0	7	5	3	5	53	A1	15-01-97	European (ER&E)	C10G	4566												
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	AS																							
	AT																							

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AC	4 5 2 9 5 2 6	7/16/85	Inoue et al	252	32.7 E	11/14/83
AD	5 2 8 1 3 4 7	1/25/94	Igarashi et al	252	42.7	8/27/92
AE	5 3 4 5 0 1 9	9/6/94	Bigeard et al	585	264	5/21/92
AF	3 6 6 8 1 1 2	6/6/72	Parker et al	208	69	12/6/68
AG	3 6 6 8 1 1 3	6/6/72	Burbidge et al	208	97	9/22/69
AH	3 8 4 3 5 0 9	10/22/74	Suto et al	208	111	
AI	3 7 6 1 3 8 8	9/25/73	Bryson et al	208	59	10/20/71
AJ	4 0 3 2 3 0 4	6/28/77	Dorer Jr. et al	44	70	9/3/74
AK	5 3 7 8 2 4 9	1/3/95	Morrison	44	388	6/28/93
AL	4 7 6 4 2 6 6	8/16/88	Chen et al	208	58	2/26/87
AM	4 9 1 1 8 2 1	3/27/90	Katzer et al	208	27	2/8/89
AN	4 9 1 9 7 8 8	4/24/90	Chen et al	208	59	10/21/88
AO	2 8 9 2 0 0 3	6/23/59	Weisz	260	683.65	1/9/57

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										Yes	No		
	AP	0	2	5	6	8	98	A2	11 05 88	European (Behrmann)	B01J	23.74	
	AO	0	2	3	9	32		A3	14 09 88	European (Semitsu Kasei)	C10M	161.02	
	AP	0			3	0	45	A1	11 07 84	European (Honda)	C10M	1.48	
	AS	0	3	1	8	8	50	A1	27 03 91	European (Nippon Oil)	C10M	169.04	

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	Paul J. Bertowicz et al.	
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AA	5 2 9 2 9 8 8	3/8/94	Wu	585	741	2/3/93
AB	3 8 4 8 0 1 8	11/12/74	Robson	260	683.65	
AC	2 8 8 8 5 0 1	5/26/59	Folkins et al	260	683.65	12/31/56
AD	2 9 8 2 8 0 2	5/2/61	Folkins et al	260	683.65	10/31/57
AE	3 5 0 7 7 7 6	4/21/70	Hann	208	85	12/29/67
AF	4 3 0 4 8 7 1	12/8/81	Brennan et al	518	717	8/19/77
AG	2 9 0 6 6 8 8	9/29/59	Farmer et al	208	33	3/28/56
AH	3 6 6 0 0 5 8	5/2/72	Feldman et al	44	80	3/17/69
AI	5 4 7 9 7 7 5	1/2/96	Kraemer et al	60	274	4/25/94
AJ	5 5 2 2 9 8 3	6/4/96	Cash			2/6/92
AK	5 1 8 3 5 5 6	2/2/93	Reilly			
AL	3 0 0 2 8 2 7	10/3/61	Fenske			
AM	5 3 4 5 0 1 9	5/21/92	Bigeard <sup>(1)</sup>			
AN						
AO						

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AP	94 2 8 0 9 5	08 12 94	WO (ER&E)	C10M	135-18	
AQ	0 2 2 7 2 18 A1	31 02 87	EP (ER&E)	C10L	1 18	
AR	0 4 1 4 0 14 B1	02 04 93	EP (Ethyl)	C10L	1 22	
AS	0 4 6 0 9 57 B1	02 08 95	EP (Tonen)	C10L	1 14	

(1) English language equivalent of EP 0515270

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		08971.254
	Applicant(s) Paul J. Bertowitz, et al	
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AO	0 5 5 5 0 06 A1	11 08 93	EP (Slovakia)	C10L	1/22		
AP	0 5 6 9 2 28 B1	24 06 98	EP (Ethyl)	C10L	1/14		
AQ	0 6 3 4 4 72 A1	18 01 95	EP (Ethyl)	C10L	1/14		
AR	92 0 2 5 0 *	20 02 92	WO (Mobil)	C10L	5/00		
AS	94 1 7 1 6 0	04 08 94	WO (Exxon Chem)	C10L	1/18		

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	Applicant(s) Paul J. Benowitz, et al	
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Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date
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AD	94 / 2 0 5 9 3	15 09 94	WO (Mobil)	C10L	1/22		
AP	95 / 0 3 3 7 7	02 02 95	WO (Exxon Chem)	C10L	1/14		
AO	0 3 7 4 4 61	13 05 92	EP (BASF)	C10L	1/14	X(1)	
AR	0 3 2 1 3 01	21 06 89	EP (ER&E-Hamner)	B01J	23 40		
AS	96 / 2 6 3 9 6	05 09 96	WO (BP Chem)	C10M	1/33 08		
AT	113 / 2 3 1 9 90	15 10 91	Japan (Showa Shell)			X	
AU	2 1 3 7 4 9 0	14 04 72	France (Texaco)			X	

(1) English language equivalent is USP 5,004,478 (Vogel) enclosed

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						08/971,254							
				Applicant(s) Paul J. Berlowitz, et al									
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<b>U. S. PATENT DOCUMENTS</b>													
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	AA												
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	AO	2	6	5	0	2	8	9	2/1/91	France	C10L	1/18	X
	AP												
	AQ												
<b>OTHER DISCLOSURES</b> (Include Author, Title, Date, Pertinent Pages, Place of Publication, etc.)													
	AR	Lacey, Paul L., "Wear Mechanism Evaluation and Measurement in Fuel-Lubricated Components", September 1994											
	AS	SwRI Gear Oil Soot Test (GOST) Flyer - Gear Oil Soot Test (GOST), 2/97											

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	AR	Lacey, Paul J., "Wear Mechanism Evaluation and Measurement in Fuel-Lubricated Components", U.S. Department of Commerce # ADA284870, September 1994											
	AS												

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				Applicant(s) Paul J. Berlowitz, et al. <i>ES 10/97</i>			
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	AN	P	3	0	3	0	9	98	9	01 04 82	Germany	C10G	1/06	X	
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	AP														
	AQ														

  

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<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)										Attorney Docket No.				U. S. Serial No. 08/971,254							
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<b>U. S. PATENT DOCUMENTS</b>																					
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<b>FOREIGN PATENT DOCUMENTS</b>																					
		Document Number						Publica- tion Date	Country	Class	Sub- Class	Translation Yes No									
	AN	7	2	8	5	4	3	4/20/55	United Kingdom	2(3)	B1G										
	AO																				
	AP																				
	AQ																				
<b>OTHER DISCLOSURES</b> (Include Author, Title, Date, Pertinent Pages, Place of Publication, etc.)																					
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